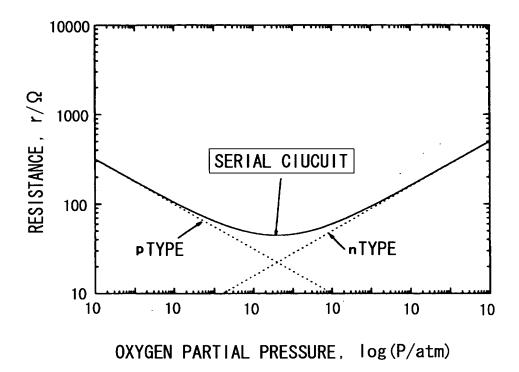
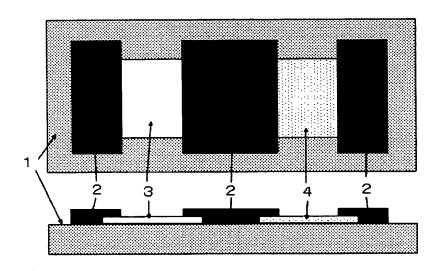


Fig. 1



F i g. 2

3/12



1 ··· SUBSTRATE

2 ··· ELECTRODE

3 --- GAS DETECTION UNIT (OXIDE SEMICONDUCTOR)

4 ··· TEMPERATURE COMPENSATION UNIT

(OXYGEN ION CONDUCTOR)

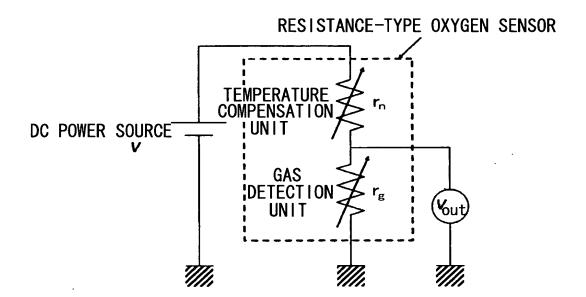
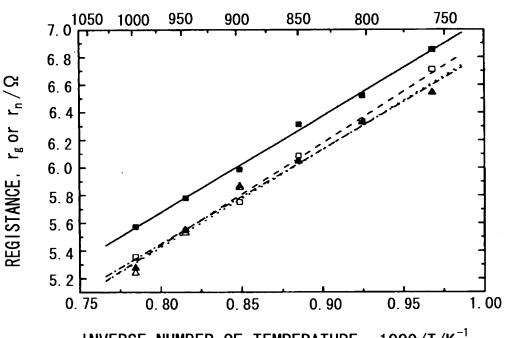


Fig. 4

TEMPERATURE (°C)



INVERSE NUMBER OF TEMPERATURE, 1000/T/K⁻¹

- - GAS DETECTION UNIT 1 atm
 □ GAS DETECTION UNIT 0.01 atm
- ▲ TEMPERATURE COMPENSATION UNIT 1 atm
 - △ TEMPERATURE COMPENSATION UNIT 0.01 atm

Fig. 5

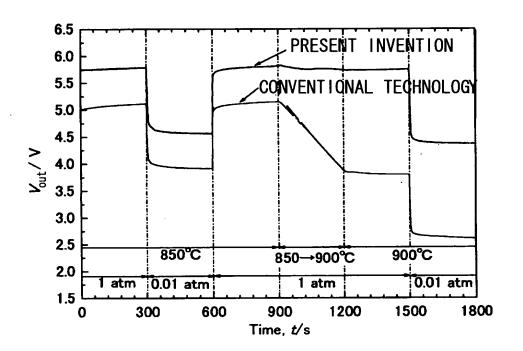


Fig. 6

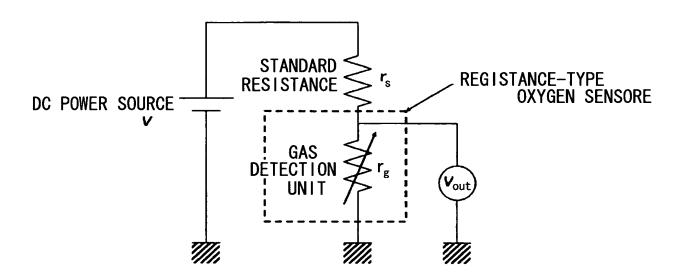
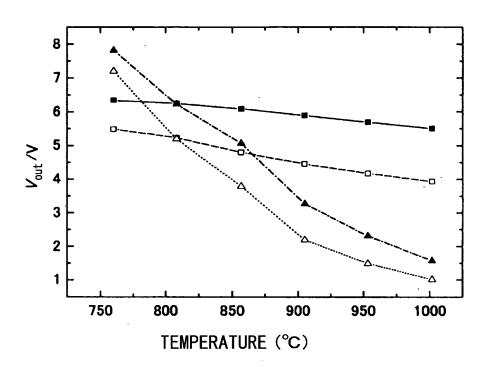


Fig. 7



-■- PRESENT INVENTION 1 atm
--□-- PRESENT INVENTION 0.01 atm
--▲-- CONVENTIONAL TECHNOLOGY 1 atm
---Δ--- CONVENTIONAL TECHNOLOGY 0.01 atm

Fig. 8

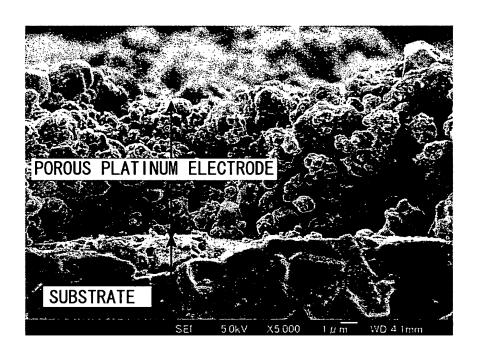


Fig. 9

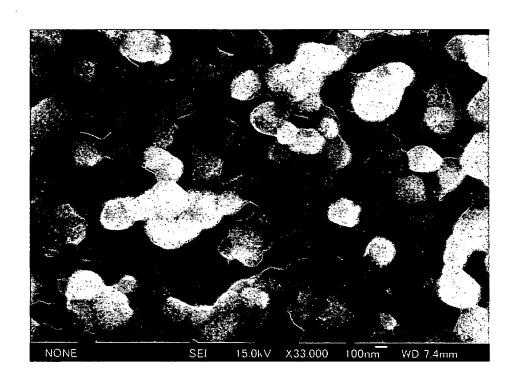


Fig. 10

OBLON ET AL (703) 413-3000 DOCKET #26399905 SHEET 11 OF 12

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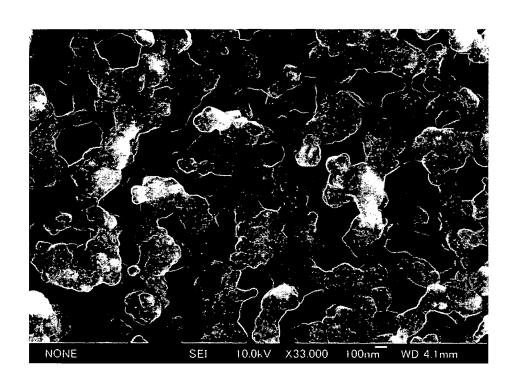
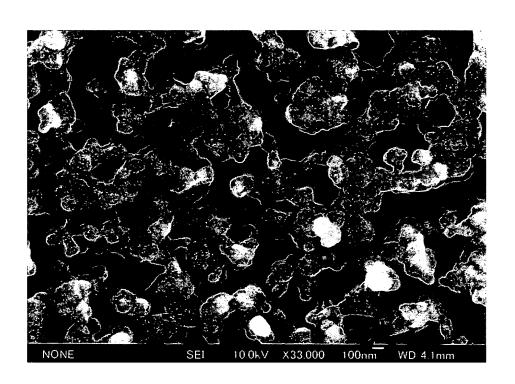


Fig. 11



F i g. 12